

Zhenhua Sun

List of Publications by Year in descending order

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46
papers

3,574
citations

304368

22
h-index

288905

40
g-index

48
all docs

48
docs citations

48
times ranked

6639
citing authors

#	ARTICLE	IF	CITATIONS
1	Infrared Photodetectors Based on CVD-Grown Graphene and PbS Quantum Dots with Ultrahigh Responsivity. <i>Advanced Materials</i> , 2012, 24, 5878-5883.	11.1	698
2	Graphene and Graphene-like Two-Dimensional Materials in Photodetection: Mechanisms and Methodology. <i>ACS Nano</i> , 2014, 8, 4133-4156.	7.3	507
3	Real-Time Observation of Organic Cation Reorientation in Methylammonium Lead Iodide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3663-3669.	2.1	322
4	The Application of Highly Doped Single-Layer Graphene as the Top Electrodes of Semitransparent Organic Solar Cells. <i>ACS Nano</i> , 2012, 6, 810-818.	7.3	297
5	A highly sensitive ultraviolet sensor based on a facile in situ solution-grown ZnO nanorod/graphene heterostructure. <i>Nanoscale</i> , 2011, 3, 258-264.	2.8	273
6	Solution Processable Low-Voltage Organic Thin Film Transistors with High-Relaxor Ferroelectric Polymer as Gate Insulator. <i>Advanced Materials</i> , 2012, 24, 88-93.	11.1	227
7	Thin Film Field-Effect Phototransistors from Bandgap-Tunable, Solution-Processed, Few-Layer Reduced Graphene Oxide Films. <i>Advanced Materials</i> , 2010, 22, 4872-4876.	11.1	209
8	Plasmonic-enhanced perovskite-graphene hybrid photodetectors. <i>Nanoscale</i> , 2016, 8, 7377-7383.	2.8	144
9	Regulating Infrared Photoresponses in Reduced Graphene Oxide Phototransistors by Defect and Atomic Structure Control. <i>ACS Nano</i> , 2013, 7, 6310-6320.	7.3	112
10	Environment-resisted flexible high performance triboelectric nanogenerators based on ultrafast self-healing non-drying conductive organohydrogel. <i>Nano Energy</i> , 2021, 82, 105724.	8.2	96
11	Enhanced photovoltaic performance of polymer solar cells by adding fullerene end-capped polyethylene glycol. <i>Journal of Materials Chemistry</i> , 2011, 21, 6848.	6.7	67
12	Enhancement of Hole Mobility of Poly(3-hexylthiophene) Induced by Titania Nanorods in Composite Films. <i>Advanced Materials</i> , 2011, 23, 3648-3652.	11.1	64
13	Highly sensitive organic near-infrared phototransistors based on poly(3-hexylthiophene) and PbS quantum dots. <i>Journal of Materials Chemistry</i> , 2012, 22, 21673.	6.7	62
14	4D-printed self-recovered triboelectric nanogenerator for energy harvesting and self-powered sensor. <i>Nano Energy</i> , 2021, 84, 105873.	8.2	48
15	High optical switching speed and flexible electrochromic display based on WO ₃ nanoparticles with ZnO nanorod arrays TM supported electrode. <i>Nanotechnology</i> , 2009, 20, 185304.	1.3	44
16	Reduced Carrier Recombination in PbS - CuInS ₂ Quantum Dot Solar Cells. <i>Scientific Reports</i> , 2015, 5, 10626.	1.6	44
17	Bidirectional Photoresponse in Perovskite-ZnO Heterostructure for Fully Optical-Controlled Artificial Synapse. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	30
18	Titanium dioxide sols synthesized by hydrothermal methods using tetrabutyl titanate as starting material and the application in dye sensitized solar cells. <i>Electrochimica Acta</i> , 2011, 56, 4308-4314.	2.6	25

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19	Enhanced electrochemical performance of the counterelectrode of dye sensitized solar cells by sandblasting. <i>Electrochimica Acta</i> , 2009, 54, 5320-5325.	2.6	24
20	A Tunneling Dielectric Layer Free Floating Gate Nonvolatile Memory Employing Type-II Core-Shell Quantum Dots as Discrete Charge-Trapping/Tunneling Centers. <i>Small</i> , 2019, 15, e1804156.	5.2	23
21	Optimization of a quasi-solid-state dye-sensitized solar cell employing a nanocrystal-polymer composite electrolyte modified with water and ethanol. <i>Nanotechnology</i> , 2009, 20, 105204.	1.3	22
22	n- and p-Type modulation of ZnO nanomesh coated graphene field effect transistors. <i>Nanoscale</i> , 2012, 4, 3118.	2.8	22
23	Solution processable high-performance infrared organic photodetector by iodine doping. <i>RSC Advances</i> , 2016, 6, 45166-45171.	1.7	22
24	A self-encapsulated broadband phototransistor based on a hybrid of graphene and black phosphorus nanosheets. <i>Nanoscale Advances</i> , 2020, 2, 1059-1065.	2.2	22
25	Trap-Assisted Charge Storage in Titania Nanocrystals toward Optoelectronic Nonvolatile Memory. <i>Nano Letters</i> , 2021, 21, 723-730.	4.5	20
26	Self-powered photodetectors based on Cs _x MA _{1-x} PbI ₃ perovskite films with high detectivity and stability. <i>Nano Energy</i> , 2020, 71, 104611.	8.2	17
27	Broadband White-Light Emission from Alumina Nitride Bulk Single Crystals. <i>ACS Photonics</i> , 2018, 5, 4009-4013.	3.2	16
28	The Physical Vapor Transport Method for Bulk AlN Crystal Growth. <i>Molecules</i> , 2019, 24, 1562.	1.7	16
29	Luminescence characterizations of freestanding bulk single crystalline aluminum nitride towards optoelectronic application. <i>CrystEngComm</i> , 2017, 19, 5522-5527.	1.3	14
30	SnSe ₂ Quantum Dots: Facile Fabrication and Application in Highly Responsive UV-Detectors. <i>Nanomaterials</i> , 2019, 9, 1324.	1.9	14
31	Nonlithographic Fabrication of Crystalline Silicon Nanodots on Graphene. <i>Journal of Physical Chemistry C</i> , 2012, 116, 532-537.	1.5	11
32	Defects induced broad spectral photoresponse of PVT-grown bulk AlN crystals. <i>Scripta Materialia</i> , 2018, 154, 45-48.	2.6	11
33	Ambipolar Charge Storage in Type-II Core/Shell Semiconductor Quantum Dots toward Optoelectronic Transistor-Based Memories. <i>Advanced Science</i> , 2021, 8, e2100513.	5.6	9
34	The Application of a High- ϵ_r Polymer Dielectric in Graphene Transistors. <i>Advanced Electronic Materials</i> , 2020, 6, 2000031.	2.6	8
35	Thin film transistors integrating CsPbBr ₃ quantum dots for optoelectronic memory application. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 114002.	1.3	8
36	Optically tunable split-ring resonators controlled lead sulfide quantum dots modulator for wide THz radiation. <i>Nanophotonics</i> , 2022, 11, 1619-1628.	2.9	8

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37	SnSe Nanosheets: From Facile Synthesis to Applications in Broadband Photodetections. <i>Nanomaterials</i> , 2021, 11, 49.	1.9	6
38	Simulation and Experiment for Growth of High-Quality and Large-Size AlN Seed Crystals by Spontaneous Nucleation. <i>Sensors</i> , 2020, 20, 3939.	2.1	5
39	Highly-Responsive Broadband Photodetector Based on Graphene-PTAA-SnS ₂ Hybrid. <i>Nanomaterials</i> , 2022, 12, 475.	1.9	4
40	Ultrafast infrared spectroscopy reveals intragap states in methylammonium lead iodide perovskite materials. <i>Proceedings of SPIE</i> , 2014, , .	0.8	3
41	Correction to Broadband White-Light Emission from Aluminum Nitride Bulk Single Crystals. <i>ACS Photonics</i> , 2018, 5, 5120-5120.	3.2	0
42	Correction to "Broadband White-Light Emission from Alumina Nitride Bulk Single Crystals" ACS Photonics, 2018, 5, 3864-3865.	3.2	0
43	First Principles Study on Li-doped and Li,O-codoped AlN. <i>Medziagotyra</i> , 2019, 25, .	0.1	0
44	Nucleation Control in Physical Vapor Transport Growth of AlN Single Crystals on Polycrystal Tungsten Substrates. <i>Medziagotyra</i> , 2020, 26, 139-142.	0.1	0
45	Revisiting the Polyol Synthesis and Plasmonic Properties of Silver Nanocubes. <i>Current Chinese Science</i> , 2020, 1, 132-140.	0.2	0
46	ZnSe/ZnS Core-Shell Quantum Dots Doped with Mn ²⁺ Ions for Magnetic State-Manipulated Light Sources. <i>ACS Applied Nano Materials</i> , 2022, 5, 8448-8456.	2.4	0